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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/820,217	03/29/2001	Ha Zoong Kim	0465-0751P-SP	2187	
2292	7590 12/03/2002				
BIRCH STEWART KOLASCH & BIRCH			EXAMINER		
PO BOX 747			CHEDDEDC	MADIAE	
FALLS CHUI	RCH, VA 22040-0747		GUERRERO, MARIA F		
			ART UNIT	PAPER NUMBER	
			2822	-	
			DATE MAILED: 12/03/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

ř		Application No.	Applicant(s)				
		09/820,217	KIM, HA ZOONG				
	Office Action Summary	Examiner	Art Unit				
<u>.</u>	•	Maria Guerrero	2822				
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1)	Responsive to communication(s) filed on <u>17 S</u>	Centember 2002					
2a)⊠		s action is non-final.					
3)	/=		occoution on to the movite is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims							
4)⊠	Claim(s) 1-8 and 10-12 is/are pending in the ap	oplication.					
	4a) Of the above claim(s) <u>1-4</u> is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	5)⊠ Claim(s) <u>5-8 and 10-12</u> is/are rejected.						
7)							
8)							
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objection to the		• •				
11)[2]	The proposed drawing correction filed on <u>17 Ser</u>		b) disapproved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)[	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority documents						
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
I) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	(PTO-413) Paper No(s) atent Application (PTO-152)				

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#### **DETAILED ACTION**

This Office Action is in response to the amendment filed September 17, 2002.
 Claim 9 is canceled.

Claims 1-8 and 10-12 are pending.

# Election/Restrictions

2. Claims 1-4 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 7.

# **Drawings**

3. The proposed drawing correction and/or the proposed substitute sheets of drawings, filed on September 17, 2002 have been approved. A proper drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The correction to the drawings will not be held in abeyance.

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### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 5-7, 10-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Hirabayashi (U.S. 5,614,445).

Hirabayashi teaches preparing a semiconductor substrate of a first conductivity type, forming scribe lanes in the semiconductor substrate to define chip formation areas, and forming a deep well area in each chip formation area (Fig. 1-4, 6-12, col. 4, lines 40-60). Hirabayashi discloses the deep well area having a second conductivity type opposite the first conductivity type, and forming at least one well area within the deep well area (col. 5, lines 10-25, col. 6, lines 5-25). Hirabayashi shows the first conductivity type being P-type and the second conductivity type being N-type (Fig. 3-4, 11-12). In addition, Hirabayashi teaches the use of the plasma processing (col. 4, lines 65-67). Hirabayashi teaches the scribe lanes containing only the semiconductor substrate (Fig. 1-2, col. 2, lines 60-67, col. 3, lines 1-5).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hirabayashi (U.S. 5,614,445) in view of Kim et al. (U.S. 6,159,826).

Regarding claim 8, Hirabayashi does not specifically show the first conductivity type being N-type and the second conductivity type being P-type. However, Kim et al. shows the first conductivity type being N-type and the second conductivity type being P-type (col. 3, lines 30-35).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Hirabayashi's process by including Kim et al. teaching. The modification would provide a process that would be applied to N-type or P-type substrate.

#### Response to Arguments

6. Applicant's arguments filed September 17, 2002 have been fully considered but they are not persuasive. Claims 5-8 and 10-12 stand rejected.

Applicant argued that Hirabayashi fails to disclose the scribe lanes containing only the semiconductor substrate. However, Hirabayashi teaches the scribe lanes containing only the semiconductor substrate (Fig. 1-2, col. 2, lines 60-67, col. 3, lines 1-5).

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Furthermore, The transitional term "comprising", which is synonymous with "including," "containing," or "characterized by," is inclusive or open-ended and does not exclude additional, unrecited elements or method steps. See, e.g., Genentech, Inc. v. Chiron Corp., 112 F.3d 495, 501, 42 USPQ2d 1608, 1613 (Fed. Cir. 1997). "Comprising" is a term of art used in claim language which means that the named elements are essential, but other elements may be added and still form a construct within the scope of the claim; Moleculon Research Corp. v. CBS, Inc., 793 F.2d 1261, 229 USPQ 805 (Fed. Cir. 1986); In re Baxter, 656 F.2d 679, 686, 210 USPQ 795, 803 (CCPA 1981).

#### Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maria Guerrero whose telephone number is 703-305-0162.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 703-308-4905. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

MG MG

December 1, 2002

AMIR ZARABIAN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800